

Abstract

In a linear rolling bearing comprising a guide carriage (1) that can be mounted through rolling bearing rollers (7) on a guide rail (2), said guide carriage (1) comprising at least one endless roller channel (8) for the rollers (7), said roller channel (8) comprising a load-bearing channel (9) for load-bearing rollers (7), a return channel (10) for returning rollers (7) and two deflecting channels (11) that connect the load-bearing channel (9) and the return channel (10) to each other, said guide carriage (1) further comprising a carrier body (3) in which said return channel (10) and said load-bearing channel (9) are arranged, and, on two front ends of the carrier body (3), end members (4) in which said deflecting channels (11) are arranged, said return channel (10) comprising a return tube (27) whose tube ends are connected to said end members (4), and said roller channel comprising raceways for the rollers and side surfaces for laterally delimiting the roller channel, the return tube (27) comprises tongues (33) that engage into the end member (4) and form, through opposing tongue surfaces (34), side surfaces (23) for the deflecting channel (11), a parting joint (37) between each tongue (33) and the end member (4) being arranged at least substantially parallel to the return tube (27).

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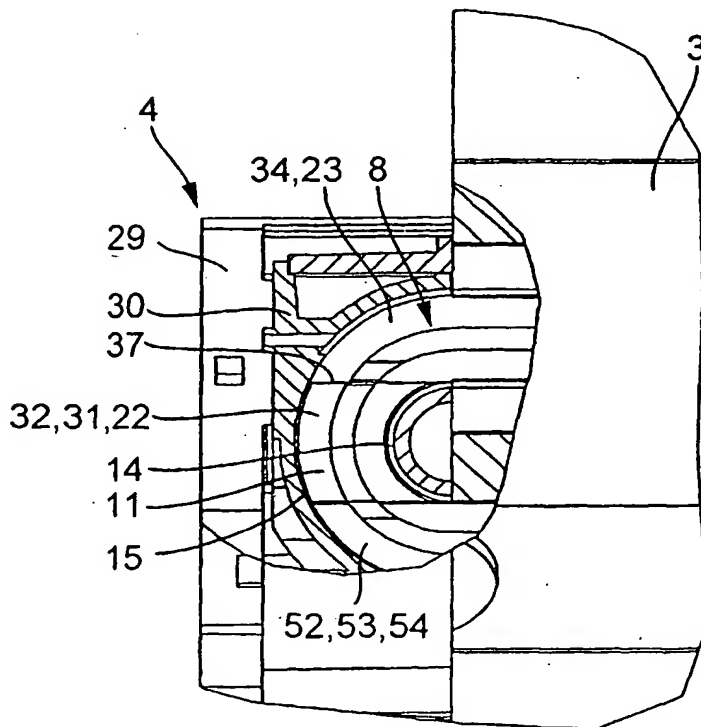
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(54) Title: LINEAR ROLLER BEARING

(54) Bezeichnung: LINEARWÄRLAGER



(57) Abstract: The invention relates to a linear roller bearing comprising a guiding carriage (1) which can be mounted on a guiding rail (2) by means of rolls (7) and comprises at least one continuous roll channel (8) for the rolls (7). Said roll channel (8) comprises a carrier channel (9) for carrying rolls (7), a return channel (10) for returning rolls (7), and two deviation channels (11) which interconnect the carrier channel (9) and the return channel (10). The guiding carriage (1) comprises a carrier body (3) containing the return channel (10) and the carrier channel (9), and end parts (4) which contain the deviation channels (11) and are arranged on both front sides of the carrier body (3). The return channel (7) comprises a return pipe (11), the ends of said pipe being connected to the end parts (10). The roll channel comprises tracks for the rolls and lateral surfaces for laterally defining the roll channel. The return pipe (11) is provided with tongues (33) which engage in the end part (4), the facing tongue surfaces (34) forming the lateral surfaces (22) of the deviation channel (11). A separation joint (37) is arranged between each tongue (33) and the end limb (4) at least parallel to the return pipe (11).

(57) Zusammenfassung: Linearwärlager mit einem an einer Führungsschiene (2) über Rollen (7) wärlagerbaren Führungswagen (1), der mit

wenigstens einem endlosen Rollenkanal (8) für die Rollen (7) versehen ist, welcher Rollenkanal (8) einen Tragkanal (9) für tragende Rollen (7), einen Rücklaufkanal (10)

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